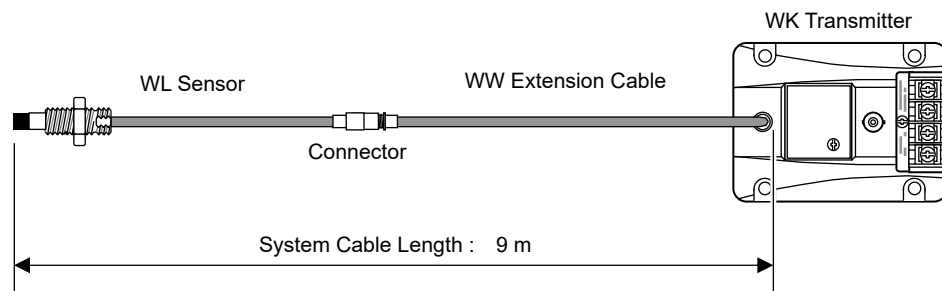


SPECIFICATIONS		NOTICE
Current Output		<p>1. CALIBRATION MATERIAL MODEL WK-142K 2-wire Vibration Transmitters are calibrated with JIS SCM440 (AISI 4140 equivalent) flat surface (more than 15 mm dia.). It is not calibrated with any other target.</p> <p>2. CONNECTOR ISOLATION, etc. The connector connecting the sensor cable and the extension cable shall be insulated with the attached insulation sleeve (transparent shrink tube) or fluoro resin insulation tape. The vinyl-insulating tape shall not be used, which may cause the wiring trouble in the case of the temperature more than 80°C. The connector shall not be located in the oil environment. The oil penetration to cable through the connector may cause the sensitivity change, due to the change of the cable capacitance.</p> <p>3. MEGGER TEST OF SIGNAL CABLE If megger test is made on the signal cable (2-wire shielded cable), be sure to discharge the charged electric load before connecting the cable to transmitter. If this caution is not adhered the transmitter could be damaged.</p> <p>4. WIRING BETWEEN GAP OUT TERMINAL AND EQUIPMENT a). Non-grounding type equipment Connect directly with coaxial cable within 3 meters long. b). Grounding type equipment Use an isolator between the transmitter and the equipment. Use coaxial cable within 3 meters long between the transmitter and the isolator.</p> <p>5. SENSOR INSTALLATION Not available for rainwater at out door use. It may cause the sensitivity change and insulation down.</p> <p>6. The instructions manual contains important information such as conditions necessary for safe handling of the system. Such information and conditions are important and indispensable for ensuring safety. Therefore, be sure to read the instructions manual thoroughly before handling the system.</p>
4 to 20mA OUTPUT RANGE	0 to 100µm pk-pk 0 to 125µm pk-pk 0 to 200µm pk-pk 0 to 250µm pk-pk 0 to 400µm pk-pk	
4 to 20mA OUTPUT CONVERSION ACCURACY	±1.5 % of Full Scale Range (From test signal input pin to current output)	
MAX. LOAD REGISTANCE	43.5 × (Vps-12) (Vps=Power supply voltage)	
NOT-OK FUNCTION	Current output : 3.6mA or less. Not-OK condition : Open or short of sensor, Outside of linear range. Delay time to resume ; 2 to 3 seconds after Not-OK condition is removed.	
GAP Output (Wave form output)		
CALIBRATION MATERIAL	JIS SCM440 FLAT (AISI 4140 equivalent)	
LINEAR RANGE*	1.4mm (Gap : 0.3 to 1.7mm)	
SCALE FACTOR*	7.87mV/µm	
SCALE FACTOR ERROR*	7.87mV/µm±6.5% typ. (including interchangeability errors) Step : 200µm, Target : 30 mm dia.	
OUTPUT IMPEDANCE*	10kΩ (It is calibrated load impedance at 10MΩ)	
System		
FREQUENCY RESPONSE*	5Hz to 6,000Hz (+0dB, -3dB) at 900µm Gap	
TEMPERATURE RANGE OF TRANSMITTER	Operating : 0 to 70°C(32 to 158°F) Storage : -34 to +100°C(-29 to +212°F)	
TEMPERATURE RANGE OF SENSOR AND EXTENSION CABLE	Operating : -34 to +177°C (-29 to +350°F) (Connector : Max. 125°C (257°F)) Storage : -34 to +177°C (-29 to +350°F) (Connector : Max. 125°C (257°F))	
RANGE OF TEMPERATURE AT EXPLOSION PROOF CONSTRUCTION	CSA, ATEX, KTL, TR-CU : 0 to +70°C (Sensor, Ext. Cable & Transmitter)	
RELATIVE HUMIDITY	95%RH (non condensing)	
POWER SUPPLY VOLTAGE	12 to 35VDC	
SENSOR TIP DIAMETER	Approx. 5.5mm (0.217 inch) dia.	
CABLE DIAMETER	Approx. 2.7mm (0.106 inch) dia.	
CONNECTOR DIAMETER	Approx. 7.1mm (0.280 inch) dia.	
SYSTEM CABLE LENGTH	9 m	
TRANSMITTER SIZE	(L) 100mm × (W) 74 mm × (H) 50 mm (3.94 in) (2.91 in) (1.97 in) Mass : Approx. 530g (1.2 lb)	
*The above specifications apply at 25°C with 24VDC power supply and SCM440 (AISI 4140 equivalent) steel flat target.		Other _____ _____ _____ _____ _____ _____ _____ _____ _____

CONFIGURATION



Model Code / Additional Spec. Code(No entry if additional spec. code is not specified.)

• Transmitter

WK-142K * - * / NB * /DNC

System Cable length		Output Range		Non-incendive		With DIN Mounting Clips	
5	9m	1	0 to 100 μ mpk-pk	1	CSA C/US: Class I, Division 2, Groups A,B,C and D ATEX:Ex nA II T4 Gc	8	KTL:Ex nA II T4
		2	0 to 125 μ mpk-pk				
		3	0 to 200 μ mpk-pk				
		4	0 to 250 μ mpk-pk				
		5	0 to 400 μ mpk-pk				
				8	KTL:Ex nA II T4		
				C	TR-CU:2Ex nA II T4 Gc X		

• Extension Cable

WW-142K * - * /NB *

Armor		Extension cable length		Non-incendive	
A	With (Without Fluoro resin coating)	5	8.0m	1	CSA C/US: Class I, Division 2, Groups A,B,C and D ATEX:Ex nA II T4 Gc
T	With (With Fluoro resin coating)	6	8.5m		
L	Without				
				8	KTL:Ex nA II T4
				C	TR-CU:2Ex nA II T4 Gc X

• Sensor

WL-142K05 * - * * * * /NB *

Armor		Thread size		Unthreaded length* (L1)		Case length* (L2)		Cable length (L3)		Non-incendive	
A	With (Without Fluoro resin coating)	M1	M8 X 1	10mm step, 0 to 230mm e.g.) 06=60mm, L1 \leq L2-20mm	10mm step, 20 to 250mm e.g.) 25=250mm	1	0.5m	1	CSA C/US: Class I, Division 2, Groups A,B,C and D ATEX:Ex nA II T4 Gc		
		M2	M10 X 1			2	1.0m				
		U1	1/4-28 UNF-2A			0.1 in step, 0 to 9.2in e.g.) 04=0.4in, L1 \leq L2-0.7in	0.1in step, 0.8 to 9.9in e.g.) 35=3.5in			5	9.0m
T	With (With Fluoro resin coating)	U2	3/8-24 UNF-2A					8	KTL:Ex nA II T4		
L	Without							C	TR-CU: 2Ex nA II T4 Gc X		

* inch for UNF-2A thread
mm for M thread

WL-142K05R - * * * * * /NB *

Thread size		Unthreaded length*		Case length*		Cable length (L3)		Non-incendive	
M2	M10 x 1	05=5mm		30=30mm		1	0.5 m	1	CSA C/US: Class I, Division 2, Groups A,B,C and D ATEX:Ex nA II T4 Gc
U2	3/8-24 UNF-2A	02=0.2inch		12=1.2inch		2	1.0 m		
						5	9.0 m		
								8	KTL:Ex nA II T4
								C	TR-CU: 2Ex nA II T4 Gc X

* inch for UNF-2A thread
mm for M thread